Active Recombinant Human Lysyl Oxidase-Like 3, His-tagged

Cat. No. LOXL3-1979H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RecombinantHuman LOXL3 protein was expressed in Chinese HamsterOvary cell line. Met1-Ile753, with a C-terminal 10-Histag.
Species	Human
Source	CHO
ProteinLength	1-753 a.a.
Description	LOXL3 is asecreted copper amine oxidase. The N-terminal region of LOXL3 contains fourscavenger receptor cysteinerich (SRCR) domains. The C-terminal regionconsists of a catalytic domain similar to other lysyl oxidases and a cytokinereceptor-like domain. The catalytic domain contains conserved residues requiredfor copper binding and formation of a lysyl tyrosylquinone cofactor. LOXL3 isexpressed primarily in epidermis, kidney, aorta, and chondrocytes. The enzymeis expressed at low levels in most other tissues. Like lysyl oxidase, LOXL3oxidizes the lysine ε-amino groups of a number of collagen substrates, and isalso active against other primary amines. However, LOXL3 does not requireproteolytic processing to be activated.
Form	Supplied as a 0.2 μmfiltered solution in MES and NaCl.
N-terminalSequence	Ser26
MolecularWeight	82 kDa

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Activity	Measuredby its ability to produce hydrogen peroxide during the oxidation of benzylamine.The specific activity is > 1.5 pmoles/min/µg, as measured under the describedconditions.
Endotoxin Level	<1.0EU per 1µg of the protein by the LAL method.
SDS-PAGE	90-100kDa, reducing conditions.
Purity	>90%,by SDS-PAGE under reducing conditions and visualized by Colloidal CoomassieBlue stain at 5 µg per lane.
Storage	Use amanual defrost freezer and avoid repeated freezethaw cycles. 6 monthsfrom date of receipt, -20 to -70°C as supplied. 3 months,-20to-70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	LOXL3 lysyl oxidase-like 3 [Homosapiens]
Official Symbol	LOXL3
Synonyms	LOXL3; lysyloxidase-like 3; LOXL; lysyl oxidase homolog 3; lysyl oxidase-likeprotein 3; EC 1.4.3.13
Gene ID	84695
mRNA Refseq	NM_032603
Protein Refseq	NP_115992
MIM	607163

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UniProt ID	P58215
Chromosome Location	2p13
Function	copper ion binding;metal ion binding; oxidoreductase activity; oxidoreductase activity, actingon the CH-NH2 group of donors, oxygen as acceptor; protein-lysine 6-oxidaseactivity; scavenger receptor activity

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